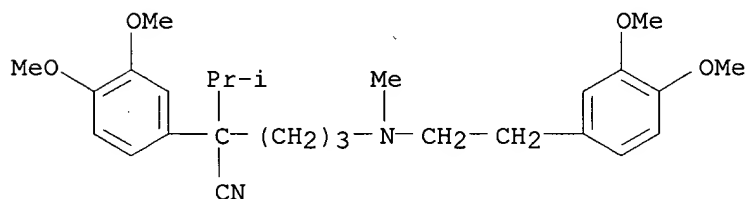


L1 ANSWER 26 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 52-53-9 REGISTRY
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino
]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Valeronitrile, 5-[(3,4-dimethoxyphenethyl)methylamino]-2-(3,4-
 dimethoxyphenyl)-2-isopropyl- (7CI, 8CI)
 OTHER NAMES:
 CN **(.+-.)-Verapamil**
 CN 5-[(3,4-Dimethoxyphenethyl)methylamino]-2-(3,4-dimethoxy
 phenyl)-2-isopropylvaleronitrile
 CN CP 16533-1
 CN D 365
 CN **dl-Verapamil**
 CN Iproveratril
 CN NSC 272306NA
 CN **R,S-Verapamil**
 CN **Verapamil**
 CN VPL
 FS 3D CONCORD
 DR 7482-85-1, 56949-77-0
 MF C27 H38 N2 O4
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
 BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
 CHEMCATS, CHEMLIST, CIN, CSChem, CSNB, DDFU, DIOGENES, DRUGU, EMBASE,
 HSDB*, IFICDB, IFIPAT, IFIUDb, IPA, MEDLINE, MRCK*, NIOSHTIC, PHAR,
 PHARMASEARCH, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER,
 ULIDAT, USAN, USPAT2, USPATFULL, VETU
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

7947 REFERENCES IN FILE CA (1957 TO DATE)
 78 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 7955 REFERENCES IN FILE CAPLUS (1957 TO DATE)
 14 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d 1-25

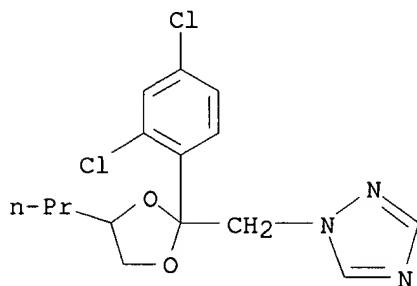
L1 ANSWER 1 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 460325-60-4 REGISTRY
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino
]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, mixt. with
 1-[[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-yl]methyl]-1H-1,2,4-
 triazole (9CI) (CA INDEX NAME)

```

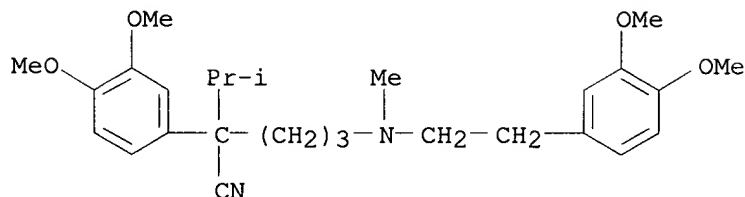
CN      Verapamil-propiconazole mixt.
MF      C27 H38 N2 O4 . C15 H17 Cl2 N3 O2
CI      MX5
SR      CA
LC      STN Files:  CA, CAPLUS

```

CRN 60207-90-1
CMF C15 H17 C12 N3 O2



CRN 52-53-9
CMF C27 H38 N2 O4

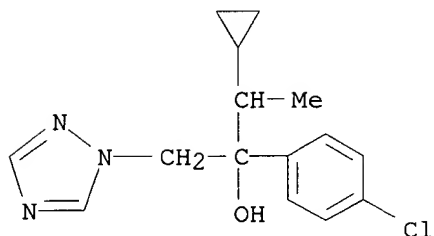


1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 2 OF 26 REGISTRY COPYRIGHT 2003 ACS
RN 460325-59-1 REGISTRY
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino
]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, mixt. with
.alpha.-(4-chlorophenyl)-.alpha.-(1-cyclopropylethyl)-1H-1,2,4-triazole-1-
ethanol (9CI) (CA INDEX NAME)

CN Verapamil-cyproconazole mixt.
MF C27 H38 N2 O4 . C15 H18 Cl N3 O
CI MXS
SR CA
LC STN Files: CA, CAPLUS

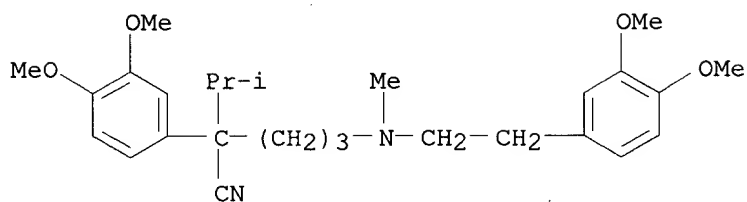
CRN 94361-06-5
CMF C15 H18 Cl N3 O



CM 2

CRN 52-53-9

CMF C27 H38 N2 O4



1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 3 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 302825-79-2 REGISTRY

CN Benzenebutanamide, .gamma.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N-methyl-.gamma.-(1-methylethyl)-, (.gamma.R)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **(R)-Verapamilamide**

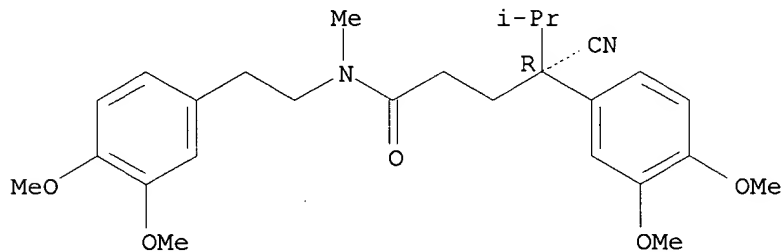
FS STEREOSEARCH

MF C27 H36 N2 O5

SR CA

LC STN Files: CA, CAPLUS

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 4 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 204642-98-8 REGISTRY
 CN Benzenebutanamide, .gamma.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N-methyl-.gamma.-(1-methylethyl)-, (.gamma.S)- (9CI) (CA INDEX NAME)

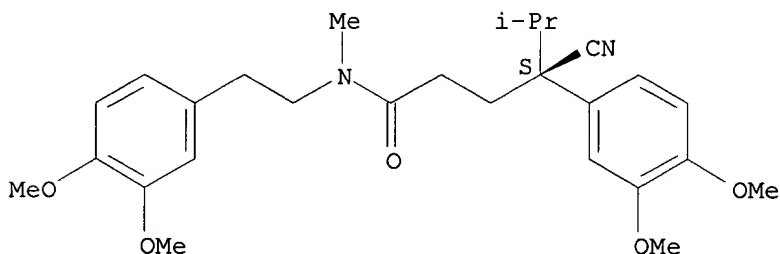
OTHER CA INDEX NAMES:

CN Benzenebutanamide, .gamma.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N-methyl-.gamma.-(1-methylethyl)-, (S)-

OTHER NAMES:

CN **(S)-Verapamilamide**
 FS STEREOSEARCH
 MF C27 H36 N2 O5
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1957 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1957 TO DATE)

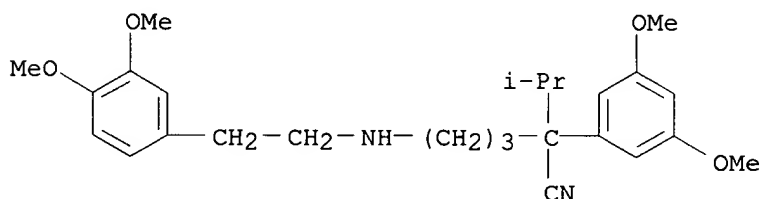
L1 ANSWER 5 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 154670-15-2 REGISTRY
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,5-dimethoxy-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,5-dimethoxy-.alpha.-(1-methylethyl)-, (.+.-)-

OTHER NAMES:

CN **Racemic norverapamil**
 FS 3D CONCORD
 MF C26 H36 N2 O4
 SR CA
 LC STN Files: CA, CAPLUS



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

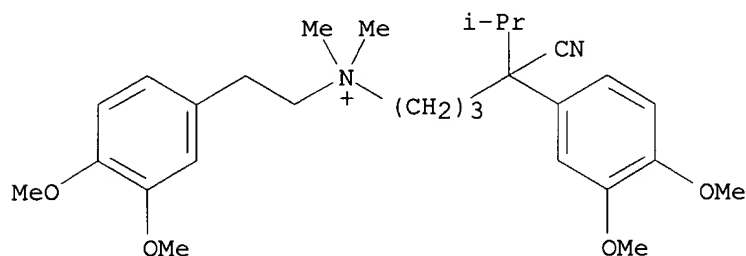
5 REFERENCES IN FILE CA (1957 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 6 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 147152-26-9 REGISTRY
 CN Benzenebutanaminium, .delta.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N,N-dimethyl-.delta.-(1-methylethyl)-, (-)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **(-)-N-Methylverapamil**
 FS STEREOSEARCH
 MF C28 H41 N2 O4
 SR CA
 LC STN Files: CA, CAPLUS

Rotation (-).



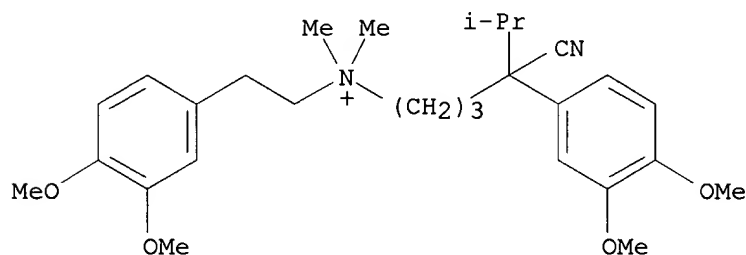
1 REFERENCES IN FILE CA (1957 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 7 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 147152-25-8 REGISTRY
 CN Benzenebutanaminium, .delta.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N,N-dimethyl-.delta.-(1-methylethyl)-, (+)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **(+)-N-Methylverapamil**
 FS STEREOSEARCH
 MF C28 H41 N2 O4
 SR CA
 LC STN Files: CA, CAPLUS

Rotation (+).



1 REFERENCES IN FILE CA (1957 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 8 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 123932-43-4 REGISTRY
 CN Benzeneacetonitrile, .alpha.-[3-[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (.alpha.R)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (R)-

OTHER NAMES:

CN **(R)-Norverapamil**

FS STEREOSEARCH

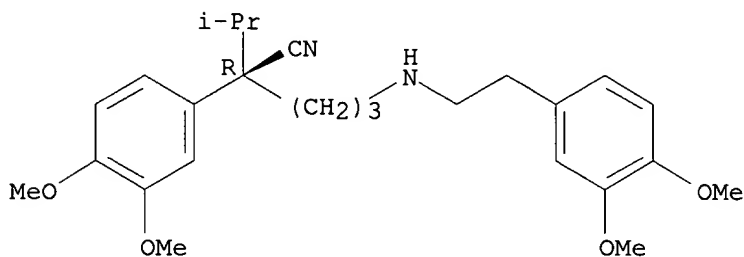
MF C26 H36 N2 O4

CI COM

SR CA

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

42 REFERENCES IN FILE CA (1957 TO DATE)

44 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 9 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 123931-31-7 REGISTRY

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (.alpha.S)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (S)-

OTHER NAMES:

CN **(S)-Norverapamil**

FS STEREOSEARCH

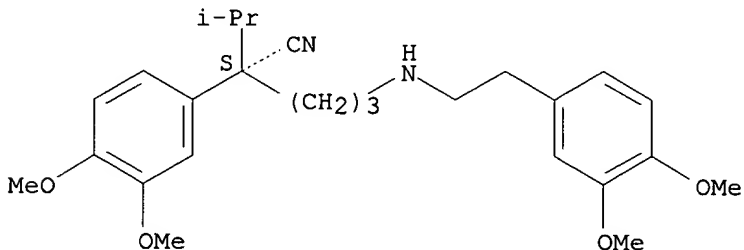
MF C26 H36 N2 O4

CI COM

SR CA

LC STN Files: BEILSTEIN*, BIOBUSINESS, CA, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

41 REFERENCES IN FILE CA (1957 TO DATE)

43 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 10 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 118258-24-5 REGISTRY

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, mixt. with N4-(7-chloro-4-quinolinyl)-N1,N1-diethyl-1,4-pentanediamine (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,4-Pentanediamine, N4-(7-chloro-4-quinolinyl)-N1,N1-diethyl-, mixt. contg. (9CI)

OTHER NAMES:

CN **Chloroquine-verapamil mixt.**

MF C27 H38 N2 O4 . C18 H26 Cl N3

CI MXS

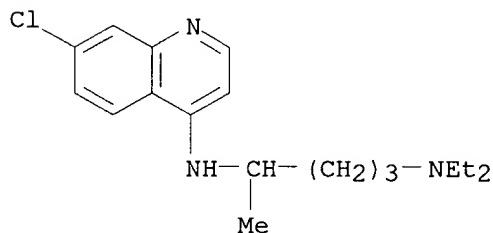
SR CA

LC STN Files: CA, CAPLUS, USPATFULL

CM 1

CRN 54-05-7

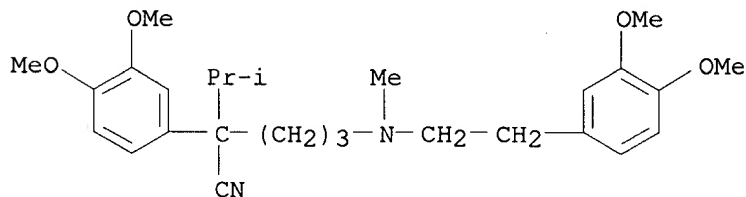
CMF C18 H26 Cl N3



CM 2

CRN 52-53-9

CMF C27 H38 N2 O4



1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 11 OF 26 REGISTRY COPYRIGHT 2003 ACS

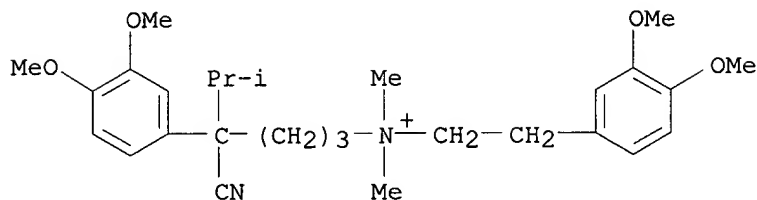
RN 111127-71-0 REGISTRY

CN Benzenebutanaminium, .delta.-cyano-N-[2-(3,4-dimethoxyphenyl)ethyl]-3,4-dimethoxy-N,N-dimethyl-.delta.-(1-methylethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN **(.+-.)-N-Methylverapamil**

FS 3D CONCORD
 DR 147152-24-7
 MF C28 H41 N2 O4
 CI COM
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER



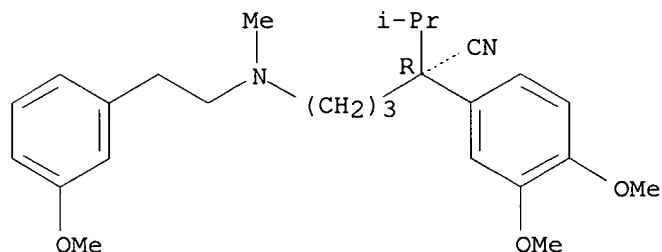
4 REFERENCES IN FILE CA (1957 TO DATE)
 4 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 12 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 93468-88-3 REGISTRY
 CN Benzeneacetonitrile, 3,4-dimethoxy-.alpha.-[3-[[2-(3-methoxyphenyl)ethyl]methylamino]propyl]-.alpha.-(1-methylethyl)-, (R)-(9CI) (CA INDEX NAME)

OTHER NAMES:

CN (+)-D 888
 CN **(+)-Desmethoxyverapamil**
 CN (+)-Devapamil
 CN (R)-(+)-Devapamil
 CN (R)-Devapamil
 FS STEREOSEARCH
 MF C26 H36 N2 O3
 LC STN Files: BIOSIS, CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

32 REFERENCES IN FILE CA (1957 TO DATE)
 32 REFERENCES IN FILE CAPLUS (1957 TO DATE)

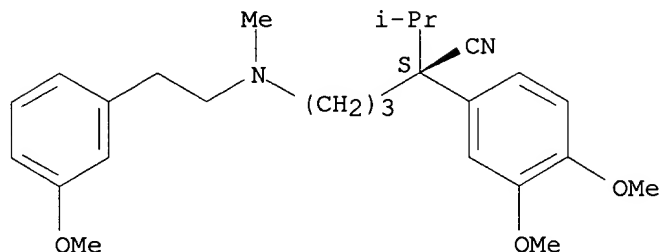
L1 ANSWER 13 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 93468-87-2 REGISTRY
 CN Benzeneacetonitrile, 3,4-dimethoxy-.alpha.-[3-[[2-(3-methoxyphenyl)ethyl]methylamino]propyl]-.alpha.-(1-methylethyl)-, (S)-(9CI) (CA INDEX NAME)

OTHER NAMES:

CN (-)-D 888
 CN **(-)-Desmethoxyverapamil**

CN (-)-Devapamil
 FS STEREOSEARCH
 MF C26 H36 N2 O3
 LC STN Files: BIOSIS, CA, CANCERLIT, CAPLUS, MEDLINE, TOXCENTER

Absolute stereochemistry.



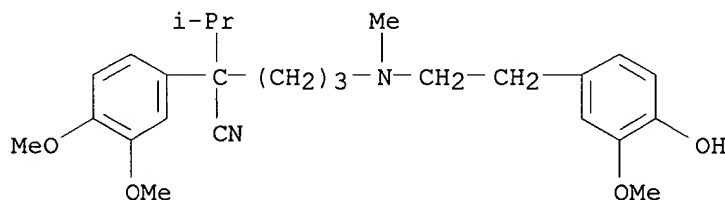
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

77 REFERENCES IN FILE CA (1957 TO DATE)
 77 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 14 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 77326-93-3 REGISTRY
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(4-hydroxy-3-methoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN D 702
 CN PR 24
 CN **PR 24 (verapamil metabolite)**
 FS 3D CONCORD
 MF C26 H36 N2 O4
 LC STN Files: ANABSTR, CA, CAPLUS, IPA, TOXCENTER



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

16 REFERENCES IN FILE CA (1957 TO DATE)
 16 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 15 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 67812-42-4 REGISTRY
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]amino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Valeronitrile, 5-[(3,4-dimethoxyphenethyl)amino]-2-(3,4-dimethoxyphenyl)-2-isopropyl-, hydrochloride (7CI)

OTHER NAMES:

COc1ccc(CCN(CCC(C)(C)C)C(C)(C)C)c(C)c1.CC(C)C

8 REFERENCES IN FILE CA (1957 TO DATE)
8 REFERENCES IN FILE CAPLUS (1957 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

COc1cc(COCCNCCCC(C)(C)C(C#N)c2cc(OC)c(OC)cc2)ccc1OC

171 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
171 REFERENCES IN FILE CAPLUS (1957 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 17 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 57986-99-9 REGISTRY
 CN Alginic acid, sodium salt, mixt. with .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)benzeneacetonitrile monohydrochloride (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride, mixt. contg. (9CI)
 OTHER NAMES:
 CN **Verapamil alginate**
 MF C27 H38 N2 O4 . Cl H . Unspecified
 CI MXS
 LC STN Files: CA, CAPLUS

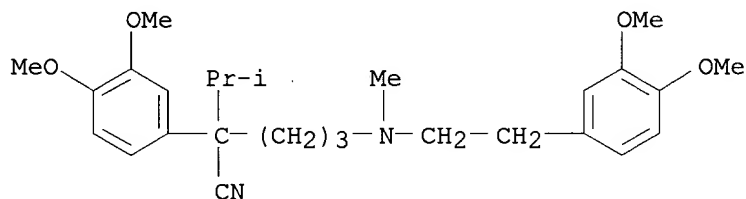
CM 1

CRN 9005-38-3
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

CM 2

CRN 152-11-4 (52-53-9)
 CMF C27 H38 N2 O4 . Cl H



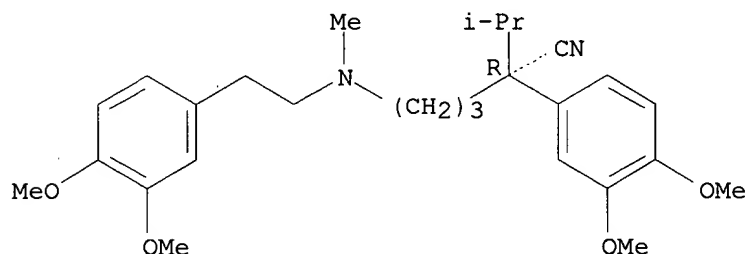
● HCl

1 REFERENCES IN FILE CA (1957 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 18 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 38321-02-7 REGISTRY
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (.alpha.R)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (R)-
 OTHER NAMES:
 CN **(+)-(R)-Verapamil**
 CN **(+)-Verapamil**
 CN **(R)-Verapamil**
 CN **d-Verapamil**
 CN Dexverapamil
 CN **R-(+)-Verapamil**

FS STEREOSEARCH
 MF C27 H38 N2 O4
 CI COM
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CAPLUS, CASREACT, CHEMLIST, DDFU,
 DRUGNL, DRUGU, DRUGUPDATES, EMBASE, IPA, MRCK*, PHAR, PROMT, TOXCENTER,
 USAN, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**, WHO
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

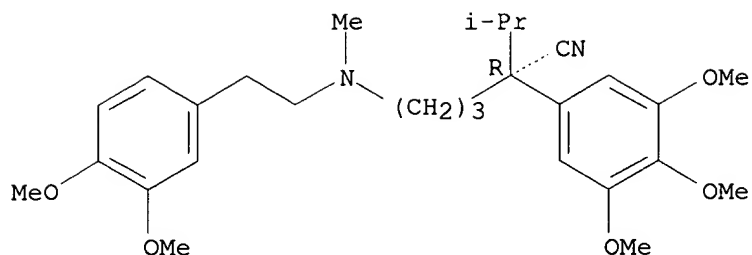


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

343 REFERENCES IN FILE CA (1957 TO DATE)
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 344 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 19 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 38176-10-2 REGISTRY
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino
]propyl]-3,4,5-trimethoxy-.alpha.-(1-methylethyl)-, (.alpha.R)- (9CI) (CA
 INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino
]propyl]-3,4,5-trimethoxy-.alpha.-(1-methylethyl)-, (R)-
 OTHER NAMES:
 CN (+)-D 600
 CN (+)-Gallopamil
 CN **(+)-Methoxyverapamil**
 CN d-D-600
 CN R-(+)-Gallopamil
 FS STEREOSEARCH
 MF C28 H40 N2 O5
 CI COM
 LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT,
 CHEMCATS, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (+).

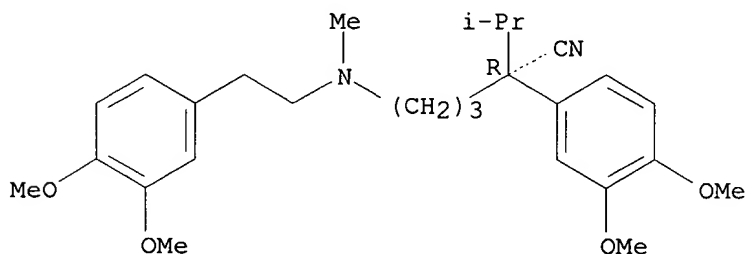


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

61 REFERENCES IN FILE CA (1957 TO DATE)
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 61 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 20 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 38176-02-2 REGISTRY
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride, (.alpha.R)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride, (R)-
 OTHER NAMES:
 CN **(+)-Verapamil hydrochloride**
 CN **(R)-Verapamil hydrochloride**
 CN Dexverapamil monohydrochloride
 CN LU 33925
 CN NSC 632821
 FS STEREOSEARCH
 MF C27 H38 N2 O4 . Cl H
 LC STN Files: BEILSTEIN*, BIOTECHNO, CA, CAPLUS, CHEMCATS, CHEMLIST, EMBASE, IPA, MRCK*, TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (38321-02-7)

Absolute stereochemistry.



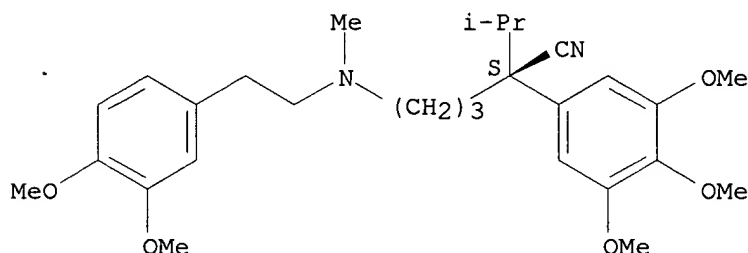
HCl

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

23 REFERENCES IN FILE CA (1957 TO DATE)
23 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 21 OF 26 REGISTRY COPYRIGHT 2003 ACS
RN 36622-40-9 REGISTRY
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4,5-trimethoxy-.alpha.-(1-methylethyl)-, (.alpha.S)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4,5-trimethoxy-.alpha.-(1-methylethyl)-, (S)-
OTHER NAMES:
CN (-)-D 600
CN (-)-Gallopamil
CN **(-)-Methoxyverapamil**
CN 1-.alpha.-Isopropyl-.alpha.-[(N-methyl-N-homoveratryl)-.gamma.-aminopropyl]-3,4,5-trimethoxyphenylacetonitrile
CN 1-D-600
FS STEREOSEARCH
MF C28 H40 N2 O5
CI COM
LC STN Files: BEILSTEIN*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CIN, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry. Rotation (-).



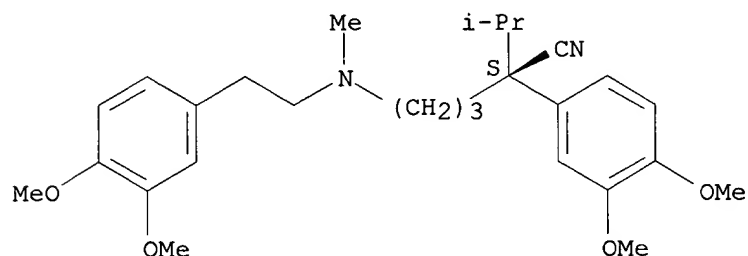
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

69 REFERENCES IN FILE CA (1957 TO DATE)
69 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 22 OF 26 REGISTRY COPYRIGHT 2003 ACS
RN 36622-29-4 REGISTRY
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (.alpha.S)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, (S)-
OTHER NAMES:
CN **(-)-(S)-Verapamil**
CN **(-)-Verapamil**
CN **(S)-(-)-Verapamil**
CN **(S)-Verapamil**
CN 1-.alpha.-Isopropyl-.alpha.-[(N-methyl-N-homoveratryl)-.gamma.-aminopropyl]-3,4-dimethoxyphenylacetonitrile

CN 1-Verapamil
 FS STEREOSEARCH
 MF C27 H38 N2 O4
 CI COM
 LC STN Files: ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
 BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CHEMLIST, IPA, PROMT,
 TOXCENTER, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.

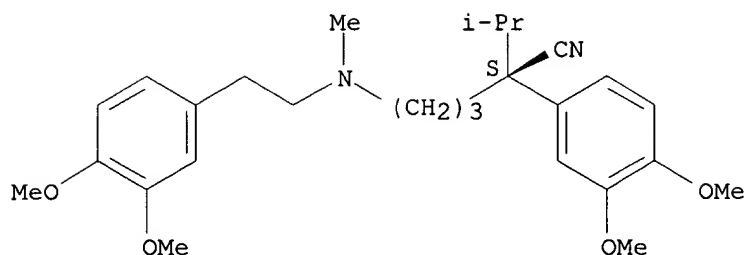


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

284 REFERENCES IN FILE CA (1957 TO DATE)
 2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 285 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 23 OF 26 REGISTRY COPYRIGHT 2003 ACS
 RN 36622-28-3 REGISTRY
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino
]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride,
 (.alpha.S)- (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino
]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride, (S)-
 OTHER NAMES:
 CN **(-)-Verapamil hydrochloride**
 CN **(S)-Verapamil hydrochloride**
 CN LU 33926
 FS STEREOSEARCH
 MF C27 H38 N2 O4 . Cl H
 LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS, CHEMLIST, TOXCENTER,
 USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (36622-29-4)

Absolute stereochemistry.

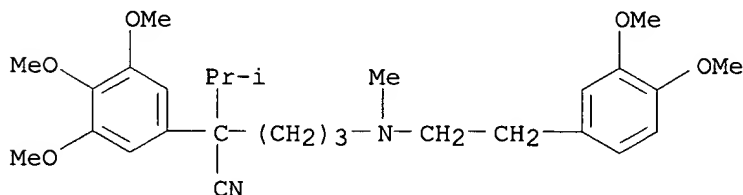


● HCl

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

19 REFERENCES IN FILE CA (1957 TO DATE)
19 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 24 OF 26 REGISTRY COPYRIGHT 2003 ACS
RN 16662-47-8 REGISTRY
CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]propyl]-3,4,5-trimethoxy-.alpha.-(1-methylethyl)- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Valeronitrile, 5-[(3,4-dimethoxyphenethyl)methylamino]-2-isopropyl-2-(3,4,5-trimethoxyphenyl)- (8CI)
OTHER NAMES:
CN (.+-.)-D 600
CN (.+-.)-Gallopamil
CN **(.+-.)-Methoxyverapamil**
CN .alpha.-Isopropyl-.alpha.-[(N-methyl-N-homoveratryl)-.gamma.-aminopropyl]-3,4,5-trimethoxyphenylacetonitrile
CN Compound D 600
CN D 600
CN D 600 (vasodilator)
CN dl-D 600
CN Gallopamil
CN Lu 30-029
CN **Methoxyverapamil**
FS 3D CONCORD
DR 56949-78-1
MF C28 H40 N2 O5
CI COM
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAPLUS, CBNB, CHEMCATS, CIN, CSCHEM, DDFU, DRUGNL, DRUGPAT, DRUGU, DRUGUPDATES, EMBASE, IPA, MEDLINE, MRCK*, NIOSHTIC, PHAR, PROMT, SYNTHLINE, TOXCENTER, USAN, USPATFULL
(*File contains numerically searchable property data)
Other Sources: WHO



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

749 REFERENCES IN FILE CA (1957 TO DATE)

7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

750 REFERENCES IN FILE CAPLUS (1957 TO DATE)

L1 ANSWER 25 OF 26 REGISTRY COPYRIGHT 2003 ACS

RN 152-11-4 REGISTRY

CN Benzeneacetonitrile, .alpha.-[3-[[2-(3,4-dimethoxyphenyl)ethyl]methylamino]
]propyl]-3,4-dimethoxy-.alpha.-(1-methylethyl)-, monohydrochloride (9CI)
(CA INDEX NAME)

OTHER NAMES:

CN **(.+-.)-Verapamil hydrochloride**

CN Akilen

CN Anpec

CN Apo-Verap

CN Apoacor

CN Arapamyl

CN Azupamil

CN Berkatens

CN Calan

CN Calan SR

CN Calaptin

CN Calaptin 240SR

CN Cardiabeltin

CN Cardiagett

CN Cardibeltin

CN Caveril

CN Civicor

CN Civicor Retard

CN Coraver

CN Cordilox

CN Cordilox SR

CN Corpamil

CN Covera HS

CN Dignover

CN Dilacoran

CN Dilacoran HTA

CN **dl-Verapamil hydrochloride**

CN Drosteakard

CN Finoptin

CN Flamon

CN Geangin

CN Hexasoptin

CN Hexasoptin Retard

CN Ikacor

CN Ikapress

CN Iproveratril hydrochloride

CN Iso-Card SR

CN Isoptin

CN Isoptin Retard

CN Isoptin SR

CN Isoptin, hydrochloride

CN Isoptine

CN Isoptino

CN Izoptin hydrochloride

CN Lekoptin Retard

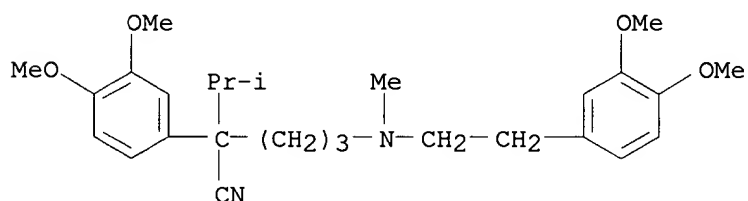
CN LU 20175

CN Manidon

CN Manidon Retard

CN Novo-Veramil

CN NSC 657799
 CN **Verapamil hydrochloride**
 ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
 DISPLAY
 DR 23313-68-0, 219944-20-4
 MF C27 H38 N2 O4 . Cl H
 CI COM
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
 BIOSIS, BIOTECHNO, CA, CABA, CAOLD, CAPLUS, CASREACT, CBNB, CHEMCATS,
 CHEMLIST, CIN, CSCHM, CSNB, DIOGENES, EMBASE, IFICDB, IFIPAT, IFIUDB,
 IPA, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PHARMASEARCH, PROMT, RTECS*,
 SPECINFO, SYNTHLINE, TOXCENTER, USAN, USPAT2, USPATFULL
 (*File contains numerically searchable property data)
 Other Sources: EINECS**
 (**Enter CHEMLIST File for up-to-date regulatory information)
 CRN (52-53-9)



● HCl

635 REFERENCES IN FILE CA (1957 TO DATE)
 7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 636 REFERENCES IN FILE CAPLUS (1957 TO DATE)
 8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)